CAVANAUGH
Stewardship Through Innovation

2020 Water Audit Level 1 Validation – Review Document

Validator Provided

Audit Information:

Utility: Rowland Water District

PWS ID: 1910194

System Type: Potable

Audit Period: Calendar 2020

Utility Representation: Dave Warren, Dusty Moisio, Crystal Rodriguez, Monica Ulloa

Validation Date: 8/19/2021

Call Time: 9:00am

Sufficient Supporting Documents Provided: Yes

Validation Findings & Confirmation Statement:

Key Audit Metrics:

Data Validity Score: 72

Data Validity Band (Level): Band IV (71-90)

ILI: 1.44

Real Loss: 27.68 (gal/conn/day)

Apparent Loss: 10.55 (gal/conn/day)

Non-revenue water as percent of cost of operating system: 3.1%

Certification Statement by Validator:

This water loss audit report has been Level 1 validated per the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34.

All recommendations on volume derivation and Data Validity Grades were incorporated into the water audit. ☒

Validator Information:

Water Audit Validator: Larry Lewison, Will Jernigan

Validator Qualifications: Certified Water Audit Validator (CA)

2020 AWWA Water Audit Level 1 Validation

Water System Name: Rowland Water District   **Water System ID Number:** 1910194   **Water Audit Period:** Calendar year 2020

Water Audit & Water Loss Improvement Steps:

Steps taken in preceding 3 years to increase data validity, reduce real loss and apparent loss as informed by the annual validated water audit:

Replaced over 3,000 water meters bodies to transition to AMI technology. The district was over 60% converted to AMI as of December 31st, 2020. This provides the district with more real time data as the meters provide reads back to the district every 12 hours. This allows the district to contact customers within days of leak occurring.

Implemented and continue to develop meter testing program which includes existing residential meters and our top 40 consumers on annual testing. Increasing residential testing by 1% every year.

The district has also installed 10 IOT pressure recorders throughout its water system. These recorders are tied into our scada system so we can see trends of the pressures and receive alarms if pressures drop.

Certification Statement by Utility Executive:

This water loss audit report meets the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34 and has been prepared in accordance with the method adopted by the American Water Works Association, as contained in their manual, *Water Audits and Loss Control Programs*, *Manual M36, Fourth Edition* and in the Free Water Audit Software version 5.

Tom Coleman	General Manager	*Tom Coleman*	9/24/21
Executive Name (Print)	Executive Position	Signature	Date

Utility Provided